

Title (en)

MOLD-RELEASE AGENT, CURED COATING FILM PREPARED THEREFROM, AND METHOD OF MOLDING WITH SAID AGENT

Title (de)

TRENNMITTEL, DARAUS HERGESTELLTER, AUSGEHÄRTETER HEBERZUG UND METHODE ZUR FORMUNG MIT DEM TRENNMITTEL

Title (fr)

AGENT DE DEMOULAGE, FEUILLE DE REVETEMENT DURCIE OBTENUE A PARTIR DE CELUI-CI, ET PROCEDE DE MOULAGE A L'AIDE DUDIT AGENT

Publication

EP 0731157 A4 19970219 (EN)

Application

EP 95900924 A 19941118

Priority

- JP 9401961 W 19941118
- JP 29192093 A 19931122

Abstract (en)

[origin: US6074588A] PCT No. PCT/JP94/01961 Sec. 371 Date May 15, 1996 Sec. 102(e) Date May 15, 1996 PCT Filed Nov. 18, 1994 PCT Pub. No. WO95/14750 PCT Pub. Date Jun. 1, 1995A mold releasing agent comprising a silicon-containing compound represented by the formula: R_1nSiR_24-n wherein R_1 is (R_3 and R_4 are a hydrocarbon group having 1 to 4 carbon atoms), R_2 is a hydrocarbon group having 1 to 4 carbon atoms or a halogenated hydrocarbon group having 1 to 4 carbon atoms, n is 3 or 4, and a silicon- and/or fluorine-containing compound having at least two hydroxyl groups or alkoxy groups in one molecule. The mold releasing agent of the present invention is excellent in mold releasing property, has a long life, provides a good surface finishing of molded article, and has no influence on secondary processability.

IPC 1-7

C10M 111/04

IPC 8 full level

B29C 33/64 (2006.01); **C10M 105/00** (2006.01); **C10M 105/76** (2006.01); **C10M 111/04** (2006.01)

CPC (source: EP KR US)

B29C 33/64 (2013.01 - EP US); **C10M 105/00** (2013.01 - EP US); **C10M 105/54** (2013.01 - EP US); **C10M 105/76** (2013.01 - EP US); **C10M 107/38** (2013.01 - EP US); **C10M 107/50** (2013.01 - EP US); **C10M 111/04** (2013.01 - EP KR US); **C10M 2203/003** (2013.01 - EP US); **C10M 2211/0406** (2013.01 - EP US); **C10M 2211/042** (2013.01 - EP US); **C10M 2211/0425** (2013.01 - EP US); **C10M 2211/0445** (2013.01 - EP US); **C10M 2211/06** (2013.01 - EP US); **C10M 2213/00** (2013.01 - EP US); **C10M 2213/023** (2013.01 - EP US); **C10M 2213/04** (2013.01 - EP US); **C10M 2213/043** (2013.01 - EP US); **C10M 2213/06** (2013.01 - EP US); **C10M 2213/0606** (2013.01 - EP US); **C10M 2213/0623** (2013.01 - EP US); **C10M 2227/00** (2013.01 - EP US); **C10M 2227/02** (2013.01 - EP US); **C10M 2227/025** (2013.01 - EP US); **C10M 2227/04** (2013.01 - EP US); **C10M 2227/045** (2013.01 - EP US); **C10M 2229/025** (2013.01 - EP US); **C10M 2229/0405** (2013.01 - EP US); **C10M 2229/041** (2013.01 - EP US); **C10M 2229/0415** (2013.01 - EP US); **C10M 2229/042** (2013.01 - EP US); **C10M 2229/0425** (2013.01 - EP US); **C10M 2229/0435** (2013.01 - EP US); **C10M 2229/0445** (2013.01 - EP US); **C10M 2229/045** (2013.01 - EP US); **C10M 2229/0455** (2013.01 - EP US); **C10M 2229/046** (2013.01 - EP US); **C10M 2229/0465** (2013.01 - EP US); **C10M 2229/047** (2013.01 - EP US); **C10M 2229/0475** (2013.01 - EP US); **C10M 2229/048** (2013.01 - EP US); **C10M 2229/0485** (2013.01 - EP US); **C10M 2229/0505** (2013.01 - EP US); **C10M 2229/051** (2013.01 - EP US); **C10M 2229/0515** (2013.01 - EP US); **C10M 2229/052** (2013.01 - EP US); **C10M 2229/0525** (2013.01 - EP US); **C10M 2229/053** (2013.01 - EP US); **C10M 2229/0535** (2013.01 - EP US); **C10M 2229/0545** (2013.01 - EP US); **C10N 2040/00** (2013.01 - EP US); **C10N 2040/30** (2013.01 - EP US); **C10N 2040/32** (2013.01 - EP US); **C10N 2040/34** (2013.01 - EP US); **C10N 2040/36** (2013.01 - EP US); **C10N 2040/38** (2020.05 - EP US); **C10N 2040/40** (2020.05 - EP US); **C10N 2040/42** (2020.05 - EP US); **C10N 2040/44** (2020.05 - EP US); **C10N 2040/50** (2020.05 - EP US)

Citation (search report)

- [Y] US 3419516 A 19681231 - JOE TARNO LARRY
- [Y] WO 9113945 A1 19910919 - INVESTORS DIVERSIFIED CAPITAL [US]
- [X] EP 0467406 A2 19920122 - DOW CORNING TORAY SILICONE [JP]
- [X] US 3758441 A 19730911 - WOHLFARTH E, et al
- [X] US 3742004 A 19730626 - NITZSCHE S, et al
- [X] DE 2335569 A1 19740131 - SHINETSU CHEMICAL CO
- [XY] GB 1169411 A 19691105 - WACKER CHEMIE GMBH [DE]
- [Y] EP 0385919 A2 19900905 - GOODYEAR TIRE & RUBBER [US]
- [XY] US 4720530 A 19880119 - WUERMINGHAUSEN THOMAS [DE], et al
- [Y] EP 0399526 A2 19901128 - DOW CORNING TORAY SILICONE [JP]
- [X] EP 0057874 A1 19820818 - BAYER AG [DE]
- [Y] DATABASE WPI Week 8536, Derwent World Patents Index; AN 85-119702, XP002020955
- [Y] DATABASE WPI Week 8317, Derwent World Patents Index; AN 83-40144K, XP002020956
- See references of WO 9514750A1

Cited by

WO0121374A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

US 6074588 A 20000613; CN 1053005 C 20000531; CN 1135769 A 19961113; EP 0731157 A1 19960911; EP 0731157 A4 19970219; KR 100254839 B1 20000501; KR 960705905 A 19961108; TW 315384 B 19970911; WO 9514750 A1 19950601

DOCDB simple family (application)

US 64637496 A 19960515; CN 94194244 A 19941118; EP 95900924 A 19941118; JP 9401961 W 19941118; KR 19960702691 A 19960521; TW 83110816 A 19941121